

elcome to STN International! Enter x:x

LOGINID:ssptamym1652

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 DEC 05 CASREACT(R) - Over 10 million reactions available  
NEWS 4 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE  
NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER  
NEWS 6 DEC 14 CA/CAPLUS to be enhanced with updated IPC codes  
NEWS 7 DEC 21 IPC search and display fields enhanced in CA/CAPLUS with the  
IPC reform  
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/  
USPAT2  
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB  
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to  
INPADOC  
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT  
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV  
NEWS 13 JAN 30 Saved answer limit increased  
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency  
added to TULSA

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.  
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT  
<http://download.cas.org/express/v8.0-Discover/>

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

All use of STN is subject to the provisions of the STN Customer  
agreement. Please note that this agreement limits use to scientific  
research. Use for software development or design or implementation  
of commercial gateways or other similar uses is prohibited and may  
result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 12:22:57 ON 20 FEB 2006

=> file .mymstn

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 12:23:12 ON 20 FEB 2006

FILE 'AGRICOLA' ENTERED AT 12:23:12 ON 20 FEB 2006

FILE 'JICST-EPLUS' ENTERED AT 12:23:12 ON 20 FEB 2006  
COPYRIGHT (C) 2006 Japan Science and Technology Agency (JST)

FILE 'BIOSIS' ENTERED AT 12:23:12 ON 20 FEB 2006  
Copyright (c) 2006 The Thomson Corporation

FILE 'CAPLUS' ENTERED AT 12:23:12 ON 20 FEB 2006  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'LIFESCI' ENTERED AT 12:23:12 ON 20 FEB 2006  
COPYRIGHT (C) 2006 Cambridge Scientific Abstracts (CSA)

FILE 'BIOTECHNO' ENTERED AT 12:23:12 ON 20 FEB 2006  
COPYRIGHT (C) 2006 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'EMBASE' ENTERED AT 12:23:12 ON 20 FEB 2006  
Copyright (c) 2006 Elsevier B.V. All rights reserved.

=> s post (w) translational (w) modification and sulfonation and ( serine or  
threonine ) (w)residue

L1 5 POST (W) TRANSLATIONAL (W) MODIFICATION AND SULFONATION AND  
(SERINE OR THREONINE ) (W) RESIDUE

=> d l1 ibib 1-5

L1 ANSWER 1 OF 5 MEDLINE on STN  
ACCESSION NUMBER: 2004285101 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 14752058  
TITLE: O-**sulfonation** of serine and threonine: mass  
spectrometric detection and characterization of a new  
posttranslational modification in diverse proteins  
throughout the eukaryotes.  
AUTHOR: Medzihradszky K F; Darula Z; Perlson E; Fainzilber M;  
Chalkley R J; Ball H; Greenbaum D; Bogyo M; Tyson D R;  
Bradshaw R A; Burlingame A L  
CORPORATE SOURCE: Department of Pharmaceutical Chemistry and Mass  
Spectrometry Facility, University of California, San  
Francisco, CA 94143, USA.  
CONTRACT NUMBER: RR 01614 (NCRR)  
SOURCE: Molecular & cellular proteomics : MCP, (2004 May) 3 (5)  
429-40. Electronic Publication: 2004-01-29.  
Journal code: 101125647. ISSN: 1535-9476.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200409  
ENTRY DATE: Entered STN: 20040610  
Last Updated on STN: 20040904  
Entered Medline: 20040903

L1 ANSWER 2 OF 5 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
ACCESSION NUMBER: 2004:294205 BIOSIS  
DOCUMENT NUMBER: PREV200400295507  
TITLE: O-**sulfonation** of serine and threonine - Mass  
spectrometric detection and characterization of a new  
posttranslational modification in diverse proteins  
throughout the eukaryotes.

AUTHOR(S): Medzihradszky, K. F.; Darula, Z.; Perlson, E.; Fainzilber, M.; Chalkley, R. J.; Ball, H.; Greenbaum, D.; Bogyo, M.; Tyson, D. R.; Bradshaw, R. A.; Burlingame, A. L. [Reprint Author]

CORPORATE SOURCE: Dept Pharmaceut Chem, Univ Calif San Francisco, 513 Parnassus Ave, San Francisco, CA, 94143, USA  
alb@itsa.ucsf.edu

SOURCE: Molecular & Cellular Proteomics, (May 2004) Vol. 3, No. 5, pp. 429-440. print.  
ISSN: 1535-9476 (ISSN print).

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 23 Jun 2004  
Last Updated on STN: 23 Jun 2004

L1 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:220005 CAPLUS

DOCUMENT NUMBER: 142:294329

TITLE: Immunological detection of protein serine/threonine O-sulfonation, modification of O-sulfonation, and chemoenzymic mapping of protein sulfonation sites

INVENTOR(S): Burlingame, Alma L.; Medzihradszky, Katalin F.; Darula, Zsuzsanna; Perlson, Eran; Fainzilber, Michael; Chalkley, Robert J.; Tyson, Darren; Bradshaw, Ralph A.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 14 pp.  
CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005054020	A1	20050310	US 2003-657027	20030905
WO 2005026321	A2	20050324	WO 2004-US25784	20040809
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW</p> <p>RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p>				
PRIORITY APPLN. INFO.:			US 2003-657027	A 20030905

L1 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:414219 CAPLUS

DOCUMENT NUMBER: 141:152738

TITLE: O-sulfonation of serine and threonine: Mass spectrometric detection and characterization of a new posttranslational modification in diverse proteins throughout the eukaryotes

AUTHOR(S): Medzihradszky, K. F.; Darula, Z.; Perlson, E.; Fainzilber, M.; Chalkley, R. J.; Ball, H.; Greenbaum, D.; Bogyo, M.; Tyson, D. R.; Bradshaw, R. A.; Burlingame, A. L.

CORPORATE SOURCE: Department of Pharmaceutical Chemistry and Mass

Spectrometry Facility, University of California, San  
Francisco, CA, 94143, USA  
SOURCE: Molecular and Cellular Proteomics (2004), 3(5),  
429-440  
CODEN: MCPOBS; ISSN: 1535-9476  
PUBLISHER: American Society for Biochemistry and Molecular  
Biology  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 5 OF 5 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights  
reserved on STN

ACCESSION NUMBER: 2004239626 EMBASE  
TITLE: O-sulfonation of serine and threonine.  
AUTHOR: Medzihradsky K.F.; Darula Z.; Perlson E.; Fainzilber M.;  
Chalkley R.J.; Ball H.; Greenbaum D.; Bogyo M.; Tyson D.R.;  
Bradshaw R.A.; Burlingame A.L.  
CORPORATE SOURCE: A.L. Burlingame, Dept. of Pharmaceutical Chemistry,  
University of California, 513 Parnassus Avenue, San  
Francisco, CA 94143-0446, United States. alb@itsa.ucsf.edu  
SOURCE: Molecular and Cellular Proteomics, (2004) Vol. 3, No. 5,  
pp. 429-443. .  
Refs: 44  
ISSN: 1535-9476 CODEN: MCPOBS  
COUNTRY: United States  
DOCUMENT TYPE: Journal; Article  
FILE SEGMENT: 029 Clinical Biochemistry  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ENTRY DATE: Entered STN: 20040617  
Last Updated on STN: 20040617

=>

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	10143	post adj translational adj modification?	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:44
L2	24	post adj translational adj modification? and sulfonation and protein and serine	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:55
L3	20	post adj translational adj modification? and sulfonation and protein and serine and method and detect	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:50
L4	28972	physiological adj condition	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:51
L5	5	l2 and physiological adj condition	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:51
L6	83462	sulfonation (1) serine	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:55
L7	73433	sulfonation (1) serine and protein	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:55
L8	6250114	method (1) detection	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:56
L9	24	l2 and l7	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:56
L10	71296	l8 and l7	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:57
L11	14	l8 and l7 and o-sulfonation	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:58
L12	7	l8 and l7 and o-sulfonation and protein	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:59
L13	64218	l8 and l7 and protein	US-PGPUB; USPAT; DERWENT	OR	ON	2006/02/20 11:59